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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,979	09/19/2003	Peter Surma	34874-062 UTIL	5371
64280 7590 07/09/2007 MINTZ, LEVIN, COHN, FERRIS, GLOVSKY & POPEO, P.C. 9255 TOWNE CENTER DRIVE SUITE 600 SAN DIEGO, CA 92121			EXAMINER HOANG, HIEU T	
			ART UNIT 2152	PAPER NUMBER
			MAIL DATE 07/09/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/665,979	Applicant(s) SURMA ET AL.	
	Examiner Hieu T. Hoang	Art Unit 2152	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is in response to the communication filed on 09/19/2003.
2. Claims 1-18 are pending and presented for examination.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1 are rejected under 35 U.S.C. 102(e) as being anticipated by Schroeder et al. (US 2002/0099735, hereafter Schroeder)

5. For claim 1, Schroeder discloses an application integration system that communicates messages between applications, a computer-implemented method for transmitting electronic messages that preserves a message format native to both a sending application and at least one receiving application, the method comprising:

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- receiving a message from the sending application, the message having a message format used by the sending application (abstract, [0026], lines 7-12, first trading partner or sender has a file format);
- wrapping the message in a markup language file envelope (fig. 4, inbound XML file 404);
- routing the markup language file envelope with the message through the application integration system (fig. 4, integration system is the intermediate system between the sender and the receiver);
- unwrapping the message from the markup language file envelope (fig. 4, unwrap XML to outbound data to be transferred to the receiver); and
- transmitting the message according to the message format to the receiving application (abstract, [0038], outbound data is associated with the receiving side's format).

6. For claim 2, Schroeder further discloses the markup language corresponds to the extensible markup language (XML) ([0029] lines 1-4, XML).

7. For claim 5, Schroeder further discloses the message format is an Idoc message format (fig. 7a, Idoc message).

8. For claim 6, Schroeder further discloses storing a copy of the message ([0027], lines 1-4, record the document in a database).

9. For claim 7, Schroeder discloses a computer-implemented method for transmitting a message from a sending application through an application integration system, the method comprising:

- determining a receiving application of the message ([0026] lines 7-12, determine the format of the sender's file);
- determining a file format used by the receiving application ([0038], a receiver has established a relationship with a system operator to automatically translate the XML data to a desired format of the receiver);
- if the file format used by the receiving application is substantially identical to a file format used by the sending application, wrapping the message in a markup language file envelope ([0029] lines 1-4, the sender's data is normalized to become an XML file); and
- routing the markup language file envelope with the message to the receiving application ([0044] lines 7-9, route raw XML data to the receiver).

10. For claim 9, Schroeder further discloses determining a file format used by the receiving application further includes retrieving file format data from a directory ([0026] lines 1-12, [0038] lines 10-13, directories for storing input and output files with certain formats).

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11. For claim 10, Schroeder further discloses determining a receiving application of the message includes retrieving receiving application data from a directory based on the content of the message ([0038] lines 10-13, outbound file with translated file format of the receiver is stored in a directory).

12. For claim 11, Schroeder discloses a system for communicating a message file from a sending application in a heterogeneous application network, comprising:

- an application integration system in communication with the sending application and one or more receiving applications, the application integration system (fig. 4, integration system is the intermediate system between the sender and the receiver) comprising:
- an inbound adapter connected with the sending application, and configured to determine at least one receiving application for receiving the message, determine a file format used by the receiving application ([0036], [0038], a receiver has established a relationship with a system operator to automatically translate the XML data to a desired format of the receiver), and if the file format used by the receiving application is substantially identical to a file format used by the sending application, wrap the message in a markup language file envelope according to a markup language format used by the application integration system ([0029] lines 1-4, the sender's data is normalized to become an XML file).

13. For claim 12, Schroeder further discloses the adapter is further configured to send the open standard file to a message exchange infrastructure of the application integration system ([0029] lines 1-4, XML is an open standard file).

14. For claim 13, Schroeder further discloses the exchange infrastructure includes a routing module for routing the open standard file from the sending application to at least one receiving application ([0044] lines 7-9, route raw XML data to the receiver).

15. For claim 14, Schroeder further discloses wherein the exchange infrastructure includes a mapping module for providing read and write access to the one or more data objects in the open standard file ([0029] lines 1-7, mapping to XML).

16. For claim 15, Schroeder further discloses wherein the markup language file envelope includes an XML envelope ([0044] lines 7-9, route raw XML data to the receiver).

17. For claim 17, Schroeder further discloses wherein the exchange infrastructure includes an integration server hosting a runtime engine for routing the open standard file to the at least one receiving application determined by the adapter (fig. 4, [0038], intermediate system routes XML file to the receiving partner at the outbound module).

18. For claim 18, Schroeder further discloses an outbound adapter connected with the receiving application, the outbound adapter configured to unwrap the message from the markup language file envelope to provide the message in the file format used by the receiving application (fig. 4, [0038], outbound XML file is translated to the receiver's format).

Claim Rejections - 35 USC § 103

19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

20. Claims 3, 4, 8, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schroeder as applied to claims 1, 7, 15 above, and further in view of Erickson et al. (US 6,851,089, hereafter Erickson).

21. For claim 3, Schroeder further discloses the message includes one or more data objects ([0026], lines 1-5, a data file). Schroeder does not explicitly disclose

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wrapping the message in a markup language file envelope includes serializing one or more data objects to form an XML file.

However, Erickson discloses wrapping the message in a markup language file envelope includes serializing one or more data objects to form an XML file (abstract, col. 25 line 57-col. 26 line15, a wrapper serialization component).

Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Schroeder and Erickson to serialize multiple objects into one XML file using a wrapper described by Erickson to maximize the efficiency (storing and retrieving of XML files) of the integration system (Erickson, abstract)

22. For claim 4, Schroeder further discloses unwrapping the message from the markup language file envelope includes deserializing the one or more data objects (same rationale as in claim 3).

23. For claims 8 and 16, the claim is rejected for the same rationale as in claim 3.

Conclusion

24. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- Upton. US 2003/0182452. Schema object model.
- Upton. US 2003/0093471. Asynchronous messaging.
- Kasi et al. US 2005/0005116. Dynamic interoperability contract for web services.
- Ananian. US 7,013,290. Interactive digital catalog profiling.
- Maes. US 6,970,935. Conversational networking via transport, coding, and control protocol.

25. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hieu T. Hoang whose telephone number is 571-270-1253. The examiner can normally be reached on Monday-Thursday, 8 a.m.-5 p.m., EST.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on 571-272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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